## 935.1PC.TXT

## SEQUENCE LISTING

<110> Novartis AG, The Scripps Research Institute <120> METHODS AND COMPOSITIONS ASSOCIATED WITH NOCICEPTIVE PAIN

<130> 4-32851A/SCR

<150> US 06/434,540 <151> 2002-12-18

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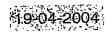
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35 40 45 Pro Val Trp Ile Gly Phe Thr Phe Pro Met Gly His Lys Phe Asn Lys 50 60 Val Pro Ile Ile Lys Phe Met Ser Tyr Leu Thr Ser His Ile Tyr Leu 65 70 75 80 Met Ile His Leu Ser Ile Val Gly Ile Thr Pro Ile Tyr Pro Val Leu 85\_ 90 \_ \_ 95 Arg Leu Ser Leu val Pro Tyr Trp Tyr Glu Val Gly Leu Leu ile Trp 100 105 Leu Ser Gly Leu Leu Leu Phe Glu Leu Thr Asn Pro Ser Asp Lys Ser Gly Leu Gly Ser Ile Lys Val Leu Val Leu Leu Gly Met Ala Gly Val Gly Val His Val Ser Ala Phe Leu Phe Val Ser Lys Glu Tyr Trp 145 150 155 160 Pro Thr Leu Val Tyr Cys Arg Asn Gln Cys Phe Ala Leu Ala Phe Leu 165 170 175 Leu Ala Cys Val Gln Ile Leu Asp Phe Leu Ser Phe His His Leu Phe 180 185 190 Gly Pro Trp Ala Ile Ile Ile Gly Asp Leu Leu Lys Asp Leu Ala Arg Phe Leu Ala Val Leu Ala Ile Phe Val Phe Gly Phe Ser Met His Ile 210 225 \_ 220 \_ Val Ala Leu Asn Gln Ser Phe Ala Asn Phe Ser Pro Glu Asp Leu Arg 225 230 235 240 Ser Phe Glu Lys Lys Asn Arg Asn Arg Gly Tyr Phe Ser Asp Val Arg 250 255 Met His Pro Ile Asn Ser Phe Glu Leu Leu Phe Phe Ala Val Phe Gly

<210> 5 <211> 365 <212> PRT <213> Caenorhabditis elegans

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35 40 45 \_\_\_\_ Pro Ala Trp Phe Tyr Phe Ser Leu Pro Leu Asp Ser Arg Ile Gly Arg Ala Pro Ile Ile Lys Phe Val Cys His Ile Val Ser His Val Tyr Phe 65 \_ 70 \_ 75 Thr Ile Leu Leu Thr Ile Val Val Leu Asn Ile Thr His Lys Met Tyr 85 90\_ \_ Glu Val Thr Ser Val Val Pro Asn Pro Val Glu Trp Leu Leu Leu 100 105 Trp Leu Ser Gly Asn Leu Val Ser Glu Leu Ser Thr Val Gly Gly Gly 115 \_ \_ \_ 120` 125 Ser Gly Leu Gly Ile Val Lys Val Leu Ile Leu Val Leu Ser Ala Met 130 \_\_\_\_\_ 135 \_\_\_\_ 140 \_\_\_\_ Ala Ile Ala Val His Val Leu Ala Phe Leu Leu Pro Ala Val Phe Leu 145 150 150 Thr His Leu Asp Asn Asp Glu Lys Leu His Phe Ala Arg Thr Met Leu 165 Tyr Leu Lys Asn Gln Leu Phe Ala Phe Ala Leu Leu Phe Ala Phe Val 180 185 190 Glu Tyr Leu Asp Phe Leu Thr Val His His Leu Phe Gly Pro Trp Ala 195 200 205 Ile Ile Ile Arg Asp Leu Met Tyr Asp Leu Ala Arg Phe Leu Val Ile 210 Leu Met Leu Phe Val Ala Gly Phe Thr Leu His Val Thr Ser Ile Phe 225 230 \_ 235 \_ 240 Gln Pro Ala Tyr Gln Pro Val Asp Glu Asp Ser Ala Glu Leu Met Arg 255 255 \_\_\_\_\_\_ Leu Ala Ser Pro Ser Gln Thr Leu Glu Met Leu Phe Phe Ser Leu Phe 260 265 Gly Leu Val Glu Pro Asp Ser Met Pro Pro Leu His Leu Val Pro Asp 275 280 285 Phe Ala Lys Ile Ile Leu Lys Leu Leu Phe Gly Ile Tyr Met Met Val 290 295 Thr Leu Ile Val Leu Ile Asn Leu Leu Ile Ala Met Met Ser Asp Thr 305 Tyr Gln Arg Ile Gln Ala Gln Ser Asp Lys Glu Trp Lys Phe Gly Arg Ala Ile Leu Ile Arg Gln Met Asn Lys Lys Ser Ala Thr Pro Ser Pro 340 345 350 Ile Asn Met Leu Thr Lys Leu Ile Ile Val Leu Arg Val 355 . 365

Lys Tyr Ile Asn Phe Ile Leu His Cys Val Leu Ile Ile Leu Tyr Phe

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Met Tyr Tyr Phe Ala Leu Phe Met Tyr Leu Val Phe Ile Val Ser Leu
35 40 45
Thr Gln Tyr Val Arg His Thr Lys Ala Pro Tyr Asn Val Trp Asn Glu 50 60
Glu Ser Tyr Tyr Asp Ser Glu Tyr Phe Asp Glu Asn Glu Thr Cys Pro
Gin Ile Asn Thr Thr Lys Pro Asp Val Val Trp Lys Ile Ile Gin
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Arg Lys Phe Ala Tyr Leu Val Asn Trp Glu Asn Trp Ile Asp Cys Phe 115 120 125
Ile Tyr Ser Thr Ala Leu Ile Thr Val Tyr Asp Phe Ser Glu Cys Ser
Ala Thr Ser Gly Val Arg Gln Asn Trp Gln Trp Ile Leu Ala Ala Leu
145 150 160
Cys Ile Phe Phe Gly Trp Ile Asn Leu Leu Phe Met Ile Arg Lys Met
Pro Arg Phe Gly Ile Phe Val Val Met Phe Val Asp Ile Val Lys Thr
 Phe Phe Arg Phe Phe Pro Val Phe Val Leu Phe Ile Ile Ala Phe Ser
 Ser Ser Phe Tyr Val Ile Leu Gln Asn Arg Pro Glu Phe Ser Thr Ile
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 Phe Met Ser Pro Leu Lys Thr Thr Val Met Met Ile Gly Glu Phe Glu 240
 Phe Thr Gly Ile Phe His Gly Asp Glu Thr Thr His Ala Glu Lys Met 250 255
 Phe Gly Pro Ala His Thr Ala Val Ala Cys Ala Leu Phe Phe Phe Phe 260 265 270
 Cys Ile Ile Met Thr Ile Leu Leu Met Asn Leu Leu Val Gly Leu Ala 280 _ 285
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Ser Ala Thr Leu Asp Arg Leu Val	265 Arg Gln Ala Gl	u Leu Val Ser	Arg .
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